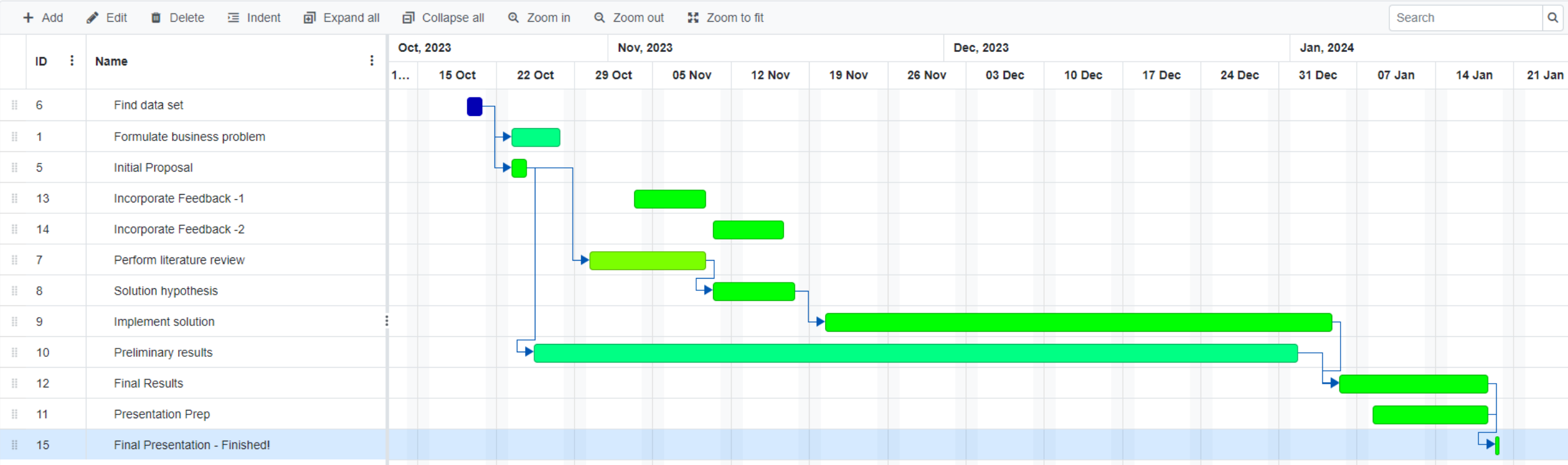


CAPSTONE PROPOSAL

Project Name	Fraud Busters Inc.
Business Understanding	Fraud Detection
Client/Project Motivation	Bank of the Dataset
Market /Industry	Finance/banking
State of the Art	Yes- using modern techniques for fraud detection (Machine Learning)
Success Metrics (Evaluation)	Accurately determining which transactions are fraudulent
Scalability	Unknown – Plans to be scalable

Modeling Requirements	
Data Type	CSV
Data Source	Kaggle
Data Preparation Steps	Train and test split, cross validation, Scaling
Data Challenges	Data imbalance
Modeling Techniques	Random Forest, XGBoost, logistic regression
Target Variable	Fraud
Regression or Classification problem	Classification
Tools/Methodologies	Python, sklearn, numpy

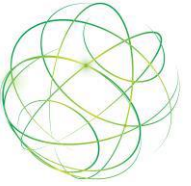
Project Timeline



Project Key

- Green = On Target
- Red = Not on Target
- Blue = Finished

Status Update



What we did in last two weeks



Update 1

Developed Gantt Chart and Initial Proposal



Update 2

Discovered our dataset and problem statement



Update 3

Created Git Repository



Update 4

Finalized proposal and created test data

What we will accomplish in next two weeks



Update 1

Develop business case



Update 2

Start literature review



Update 3

Clean the data

Roles and Responsibilities

Group Member 1: Robert Cofer – Literature review

Group Member 2: Kelvin Cupay – Data analysis

Group Member 3: Brian Gorbea - Git

Group Member 4: Ryan Lazar- Data analysis

Group Member 5: Rob Masters – Project timeline and scope

GIT

[bag5635/VT_Capstone \(github.com\)](https://github.com/bag5635/VT_Capstone)

Project Timeline

Recommended timeline – **Adjust/customize based on your team plan.** This should be updated as part of your proposal and status update

Week Number	Status Update	9 10-21-2023	10	11	12	13	14	15	16	17	18	19	20 1-19-2024
Milestones			Initial Proposal	M entor Status Update	Proposal Due			M entor Status Update		M entor Status Update	Capstone Work Day	Practice Pres.	Practice Pres.
Formulate business problem													
Find data set													
Perform literature review													
Solution hypothesis													
Implement solution													
Preliminary results													
Final Results													
Evaluate and Benchmark													
Presentation Prep													

Indicate:
Complete
On Track
At Risk
Off Track

Project Key

Green = On Target

Red = Not on Target

Blue = Finished